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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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(PCT Artcle 36 and Rule 70)

Applicant's or agent's file reference		Can National		alDroliminous.
	FOR FURTHER ACTION	SeeNotificationofTransmittalofInternationalPreliminary Examination Report (Form PCT/IPEA/416)		
ternational application No. International filing date(day/month/year) Priority date (day/month/year) PCT/KR2003/001443 21 JULY 2003 (21.07.2003) Priority date (day/month/year) 20 JULY 2002 (20.07.2002)			· .	
International Patent Classification (IPC) or				
IPC7 A61K 47/44			,	
Applicant				
KOREA INSTITUTE OF SCIE	NCE AND TECHNOI	LOGY et al		
This international preliminary exar and is transmitted to the applicant a		pared by this Inte	rnational Preliminary Exami	ning Authority
2. This REPORT consists of a total of	sheets, inc	uding this cover sl	neet.	
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).				
These annexes consist of a total ofsheets.				
3. This report contains indications relating to the following items:				
I X Basis of the report				
	II Priority Non-actablishment of animian with record to nevelty, inventive stan and industrial applicability			
i <u>L</u>				
V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
	VII Certain defects in the international application			
VIII Certain observations on the international application				
Date of submission of the demand	D	ate of completion o	of this report	
19 FEBRUARY 2004	(19.02.2004)	06 ОСТОВ	ER 2004 (06.10.2004)	
Name and mailing address of the IPEA/KR Authorized officer			A STATE OF THE PARTY OF THE PAR	
Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea		LEE, Mi Jeon	g	
Republic of Korea		elenhone No. 82-	42_481_5601	

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International aplication No.

PCT/KR2003/001443

I.	Bas	sis of the report	
1.	Wit	th regard to the elements of the international application:*	
	X	the international application as originally filed	
		the description:	
		pages	, as originally filed
		pages, filed with the letter of	, filed with the demand
		the claims: pages	, as originally filed
		pages, as amended (together with any	
		pages	, filed with the demand
		pages, filed with the letter of	· · · · · · · · · · · · · · · · · · ·
		the drawings:	
		pages	, as originally filed , filed with the demand
		pages, filed with the letter of	, med with the delight
	Г	the sequence listing part of the description:	
	_	pages	, as originally filed
		pages	, filed with the demand
		pages, filed with the letter of	
2	tt T X X	With regard to the language, all the elements marked above were available or furnished to this Authority in the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language	which is .1(b)). ination(under Rules 55.2 and/ ication, the international
	1. [5. [The amendments have resulted in the cancellation of: the description, pages the claims, Nos. the drawings, sheet This report has been established as if (some of) the amendments had not been made, since go beyond the disclosure as filed, as indicated in the Supplemental Box(Rule 70.2(c)).**	
	i	Replacement sheets which have been furnished to the receiving Office in response to an invitation use in this opinion as "originally filed." and are not annexed to this report since they do not contain and 70.17). Any replacement sheet containing such amendments must be referred to under item I and annexed	n amendments (Rules 70.16
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INTERNATIONAL PRELIMINARY EXAMINATION

International aplication No.

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V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;	r
	citations and explanations supporting such statement	

1.	Statement			
	Novelty (N)	Claims	1 - 58	YES
		Claims		NO
	Inventive step (IS)	Claims	1 - 58	YES
		Claims		NO
	Industrial applicability (IA)	Claims	1 - 58	YES
		Claims		NO

2. Citations and explanations (Rule 70.7)

The following documents are referred to here for the purpose of this report:

D1: KR 01-100194 (14 Nov. 2001)

D2: WO 00/33816 A1 (10 Dec. 1999)

D3: Eur. J. Pharm. Sci. Vol.6(3), pp.231-239 (1998)

1. Novelty

The present invention relates to a novel mucoadhesive composition for solubilization of water-insoluble drugs comprising monoglycerides, oil, optionally emulsifiers and a preparation method thereof.

- D1 discloses a mucoadhesive composition for solubilization of water-insoluble drugs comprising monoglycerides, emulsifiers, optionally organic solvents.
- D2 discloses a delivery formulation for administration to a mucous membrane comprising a particulate material to be delivered to the membrane in a matrix containing amphiphilic substances such as monoglycerides.
- D3 discloses that monoglycerides are capable of forming liquid crystals and they have been identified as potential bioadhesive substances.
- D1 differs from the present invention in that the composition of D1 does not comprise oil as an essential element.
- D2 differs from the present invention in that there is no oil and no emulsifiers in the composition of D2.
- D3 just describes the mucoadhesive properties of systems based on monoglycerides.

Therefore, claims 1-58 of the present invention are considered to be novel over D1-D3 [Article 33(2) PCT].

2. Inventive Step

D1 seems to be the closest prior art to the present invention. However, D1 does not comprise oil as an essential element unlike the present invention and it is not easily expectable to (Continued on Supplemental Sheet.)



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Supplemental Box (To be used when the space in any of the preceding boxes is not sufficient)				
Continuation of:				
Box V.				
those who skilled in the art to replace an organic solvent with oil. Therefore, claims 1-58 of the present invention are considered to involve an inventive step over D1-D3 [Article 33(3) PCT].				
3. Industrial Applicability				
The subject-matter of claims 1-58 appears to be industrially applicable [Article 33(4) PCT].				